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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,806	12/01/2003	Randy D. Blakely	VBLT:008USD1	3686 .
Steven L. High	7590 06/28/2007 lander, Esq.	EXAMINER		
FULBRIGHT &	& JAWORSKI L.L.P.	BUNNER, BRIDGET E		
Suite 2400 600 Congress Avenue			ART UNIT	PAPER NUMBER
Austin, TX 787		1647		
	•		MAIL DATE	DELIVERY MODE
	•	,	06/28/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/724,806	BLAKELY ET AL.			
		Examiner	Art Unit			
		Bridget E. Bunner	1647			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	ne correspondence address			
A SH WHIO - Exte after - If NO - Failt Any	HORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 r SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we ure to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply by the street will apply and will expire SIX (6) MONTHS to cause the application to become ABAND	FION.  be timely filed  from the mailing date of this communication.  ONED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 18 Ap	oril 20007.				
	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.					
3)⊠	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11	, 453 O.G. 213.			
Disposit	ion of Claims					
5)⊠ 6)□	Claim(s) <u>29-35</u> is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) <u>29-35</u> is/are allowed.  Claim(s) is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	vn from consideration.				
•	ion Papers					
	The drawing(s) filed on 20 type 2004 interest s		As her this Francisco			
10)[	The drawing(s) filed on <u>09 June 2004</u> is/are: a) Applicant may not request that any objection to the o	· · · · · · · · · · · · · · · · · · ·	•			
	Replacement drawing sheet(s) including the correcti					
11)	The oath or declaration is objected to by the Ex					
Priority ι	under 35 U.S.C. § 119					
12)[ a)[	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priority application from the International Bureau  See the attached detailed Office action for a list of	s have been received. s have been received in Applic ity documents have been rece (PCT Rule 17.2(a)).	cation No eived in this National Stage			
Attachmen		<b>∆</b> \ □	on: (PTO 412)			
2)	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) tr No(s)/Mail Date	4) Interview Summ Paper No(s)/Mai 5) Notice of Informa 6) Other: <u>PTO-90C</u>	l Date al Patent Application			

Art Unit: 1647

## **DETAILED ACTION**

## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Steven Highlander on 19 June 2007.

The application has been amended as follows:

Cancel claim 106

Claim 34. An isolated recombinant host cell comprising a DNA segment encoding <u>a</u> murine choline transporter having the amino acid sequence as set forth in SEQ ID NO:4 <u>wherein the DNA segment is under the control of a heterologous promoter.</u>

2. This application is in condition for allowance except for the following formal matters:

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). Specifically, the sequence disclosed in Figure 2 for ChCoT, *Limulus polyphemus*, is not accompanied by the required reference to the relevant sequence identifier. Although Applicant amended the specification at pages 8-9 to indicate that the sequence identifier for ChCoT, *Limulus polyphemus*, is SEQ ID NO: 29 in the response of 18 April 2007, there is

Art Unit: 1647

**no such sequence in the paper and CRF sequence listings. The sequence listings submitted 01 December 2003 only contain 27 sequences.** This application fails to comply with the requirements of 37 CFR 1.821 through 1.825. Applicant must comply with the requirements of the sequence rules (37 CFR 1.821 - 1.825).

Prosecution on the merits is closed in accordance with the practice under *Ex parte*Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bridget E. Bunner whose telephone number is (571) 272-0881. The examiner can normally be reached on 8:30-4:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Nickol can be reached on (571) 272-0835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BEB Art Unit 1647 21 June 2007

> BRIDGET BUNNER PATENT EXAMINER

Didget E. Burner

#### Application No. Applicant(s) 10/724,806 Blakely et al. **Notice to Comply** Examiner Art Unit Bunner, B. 1647

## NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE **DISCLOSURES**

Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The	e nucleotide and/or amino acid sequence disclosure contained in this application does not comply with requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):
$\boxtimes$	1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).
	2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
	3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
	4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
	5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
	6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
refe that is no	7. Other: The sequence disclosed in Figure 2 for ChCoT, <i>Limulus polyphemus</i> , is not accompanied by the required rence to the relevant sequence identifier. Although Applicant amended the specification at pages 8-9 to indicate the sequence identifier for ChCoT, <i>Limulus polyphemus</i> , is SEQ ID NO: 29 in the response of 18 April 2007, there is such sequence in the paper and CRF sequence listings. The sequence listings submitted 01 December 2003 only rain 27 sequences.
	plicant Must Provide:
X	An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
⊠ into	An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry the specification.
app	A statement that the content of the paper and computer readable copies are the same and, where licable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 25(d).
For	questions regarding compliance to these requirements, please contact:
For	Rules Interpretation, call (703) 308-4216 or (703) 308-2923 CRF Submission Help, call (703) 308-4212 or 308-2923 LentIn Software Program Support
	Technical Assistance703-287-0200 To Purchase Patentin Software703-306-2600

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APPLICATION NO. /CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION		ATTORNEY DOCKET NO.
10/724,806	12/01/2003	Randy D. Blakely	VBLT: 008USD1	
			EXAMINER Bunner, B.	
			ART UNIT	PAPER
		·	1647	

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

### **Commissioner of Patents**

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 C.F.R. § 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 C.F.R. §§ 1.821-1.825 for the reason(s) set forth on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures and in the instant Office Action. Applicant must comply with the requirements of the sequence rules (37 CFR 1.821 - 1.825) before the application can be examined under 35 U.S.C. §§ 131 and 132.

APPLICANT IS GIVEN TWO MONTHS FROM THE DATE OF THIS LETTER WITHIN WHICH TO COMPLY WITH THE SEQUENCE RULES, 37 C.F.R.. §§ 1.821-1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 C.F.R. § 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 C.F.R. § 1.136. In no case may an applicant extend the period for response beyond the six month statutory period. Direct the response to the undersigned. Applicant is requested to return a copy of the attached Notice to Comply with the response.

Please direct all replies to the United States Patent and Trademark Office via one (1) of the following:

1. Electronically submitted through EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>, EFS Submission User Manual - ePAVE)

2. Mailed to:

U.S. Patent and Trademark Office Box Sequence, P.O. Box 2327 Arlington, VA 22202

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bridget E. Bunner whose telephone number is (571) 272-0881. The examiner can normally be reached on 8:30-4:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Nickol can be reached on (571) 272-0835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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BEB Art Unit 1647 21 June 2007

> BRIDGET BUNNER PATENT EXAMINER

Diidget E. Burner